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Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S83	101	S82 and inter\$1frame	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/17 15:08
S82	493	382/243.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/17 15:07
S81	39	348/578,584,595,700.ccls. and @pd>="20051201"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/17 15:04
S55	22	((348/578,584,595,700.ccls. and @ad<="20010112" and @pd>="20040310") (375/240.01,240.02,240.08,240.12,240.16.ccls. and @ad<="20010112" and @pd>="20040310") (382/162,166,190-206,232, 236,238,239.ccls. and @ad<="20010112" and @pd>="20040310")) and (((number adj2 (frame\$1 picture\$1)) distance) with (reference intra))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/17 15:04
S80	0	((encod\$3 compress\$3) same ((extract\$3 calculat\$3 comput\$5 determin\$5 local\$3) with (feature edge texture histogram statistics mean median distribution)) same ((sort\$3 arrang\$3 re\$1arrang\$3 re\$1group\$3) with frame with inter\$1frame) same (inter\$1frame with (cod\$3 encod\$3) with parameter) same (decreas\$3 reduc\$4 lower\$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/17 15:02
S78	0	((encod\$3 compress\$3) same ((extract\$3 calculat\$3 comput\$5 determin\$5 local\$3) with (feature edge texture histogram statistics mean median distribution)) same ((sort\$3 arrang\$3 re\$1arrang\$3 re\$1group\$3) with frame with inter\$1frame) same (inter\$1frame with (cod\$3 encod\$3) with parameter) same (decreas\$3 reduc\$4 lower\$3)).clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/17 15:02

Interference Search

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S79	0	((encod\$3 compress\$3) and ((extract\$3 calculat\$3 comput\$5 determin\$5 locat\$3) with (feature edge texture histogram statistics mean median distribution)) and ((sort\$3 arrang\$3 re\$1arrang\$3 re\$1group\$3) with frame with inter\$1frame) and (inter\$1frame with (cod\$3 encod\$3) with parameter and (decreas\$3 reduc\$4 lower\$3)).clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/17 14:54
S77	695	S76 and @pd>="20051201"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/17 14:40
S76	15339	S74 S75	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/17 13:43
S75	11150	382/162,166,190-206,232,236,238,239.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/17 13:43
S74	4602	375/240.01,240.02,240.08,240.12,240.16.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/17 13:43
S1	7	MPEG same (feature\$1 near\$3 extract\$3) same parameter\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/17 13:43
S73	11	(video ((image frame) near\$3 sequence)) same (re\$1order\$3 re\$1arrang\$5) same control\$2 same (pre\$1process\$3 (feature near\$3 (extract\$3 detect\$3))) same encod\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/08 12:11

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S72	43	(control\$2 same (pre\$1process\$3 (feature near3 (extract\$3 detect\$3))) same encod\$3).clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/08 12:05
S71	5	S69 and @ad<="20000906"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/16 12:09
S70	0	S69 same (decrease lower reduce)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/16 12:09



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1 CVEPS - a compressed video editing and parsing system

Jianhao Meng, Shih-Fu Chang

February 1997 Proceedings of

Publisher: ACM Press

Full text available: [pdf\(1.38 MB\)](#)


Additional Information: full citation, references, citations, index terms

2 Motion editing and compression: Wavelet compression of parametrically coherent mesh sequences

Igor Guskov, Andrei Khodakovsky

August 2004 **Proceedings of the 2004 ACM SIGGRAPH/Eurographics symposium on Computer animation**

Publisher: ACM Press

Full text available:  pdf(2.36 MB)

Additional Information: full citation, abstract, references, index terms

We introduce an efficient compression method for animated sequences of irregular meshes of the same connectivity. Our approach is to transform the original input meshes with an anisotropic wavelet transform running on top of a progressive mesh hierarchy, and progressively encode the resulting wavelet details. For temporally coherent mesh sequences we get additional improvement by encoding the differences of the wavelet coefficients. The resulting compression scheme is scalable, efficient, and ...

3 An FPGA-based video compressor for H.263 compatible bit streams

G. Lienhart, R. Männer, K. H. Noffz, R. Lay

February 2001 **Proceedings of the 2001 ACM/SIGDA ninth international symposium on Field programmable gate arrays**

Publisher: ACM Press

Full text available: [pdf\(218.31 KB\)](#)

Additional Information: full citation, abstract, references, index terms

This paper presents an FPGA architecture for video encoding according to the H.263 standard for video

teleconferencing systems. The implementation is based on an off-the-shelf FPGA1 and is embedded in a PCI plug-in card2 with on-board SRAM plus external SRAM. The most complex part of the H.263 protocol, a base-line encoder, was implemented. The strategies, which have been applied to build the complex encoding operations, are treated in this paper. The complete application is able to operat ...

Keywords: distributed arithmetic

4 Feature sets for interactive images

Andrew Lippman

April 1991 **Communications of the ACM**, Volume 34 Issue 4

Publisher: ACM Press


Full text available:  pdf(7.83 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

5 Robust compression and transmission of MPEG-4 video

Steven Gringeri, Roman Egorov, Khaled Shuaib, Arianne Lewis, Bert Basch

October 1999 **Proceedings of the seventh ACM international conference on Multimedia (Part 1)**

Publisher: ACM Press

Full text available:  pdf(1.46 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper discusses issues related to the delivery of MPEG-4 video over the Internet and wireless channels. MPEG-4's built-in error resilience capabilities such as flexible re-synchronization markers, data partitioning, header protection, reversible VLCs, and forced intra-frame refresh are described. Methods for using these techniques to build a "smart" network decoder are discussed, and the decoder's video quality is measured for various channel error conditions. The effective ...


Keywords: MPEG-4, error mitigation, error resilience, robust video

6 Session 1B: System-level exploration and design: System level design with spade: an M-JPEG case study

Paul Lieveise, Todor Stefanov, Pieter van der Wolf, Ed Deprettere

November 2001 **Proceedings of the 2001 IEEE/ACM international conference on Computer-aided design**

Publisher: IEEE Press

Full text available:  pdf(190.70 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this paper we present and evaluate the Spade (System level Performance Analysis and Design space Exploration) methodology through an illustrative case study. Spade is a method and tool for architecture exploration of heterogeneous signal processing systems. In this case study we start from an M-JPEG application and use Spade to evaluate alternative multi-processor architectures for implementing this application. Spade follows the Y-chart paradigm for system ...

Keywords: M-JPEG, application modeling, architecture modeling, design space exploration, system level design

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Robust compression and transmission of MPEG-4 video

Steven Gringeri, Roman Egorov, Khaled Shuaib, Arianne Lewis, Bert Basch

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Keywords: MPEG-4, error mitigation, error resilience, robust video

2

Data and memory optimization techniques for embedded systems

P. R. Panda, F. Catthoor, N. D. Dutt, K. Danckaert, E. Brockmeyer, C. Kulkarni, A. Vandercappelle, P. G. Kjeldsberg

April 2001 **ACM Transactions on Design Automation of Electronic Systems (TODAES)**, Volume 6 Issue 2

Publisher: ACM Press

Full text available:

pdf(339.91 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We present a survey of the state-of-the-art techniques used in performing data and memory-related optimizations in embedded systems. The optimizations are targeted directly or indirectly at the memory subsystem, and impact one or more out of three important cost metrics: area, performance, and power dissipation of the resulting implementation. We first examine architecture-independent optimizations in the form of code transformations. We next cover a broad spectrum of optimizati ...

Keywords: DRAM, SRAM, address generation, allocation, architecture exploration, code transformation, data cache,

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3/17/06


data optimization, high-level synthesis, memory architecture customization, memory power dissipation, register file, size estimation, survey

3 MPEG-4: an object-based multimedia coding standard supporting mobile applications

Atul Puri, Alexandros Eleftheriadis

June 1998 **Mobile Networks and Applications**, Volume 3 Issue 1

Publisher: Kluwer Academic Publishers

Full text available:  pdf(747.80 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)


The ISO MPEG committee, after successful completion of the MPEG-1 and the MPEG-2 standards is currently working on MPEG-4, the third MPEG standard. Originally, MPEG-4 was conceived to be a standard for coding of limited complexity audio-visual scenes at very low bit-rates; however, in July 1994, its scope was expanded to include coding of scenes as a collection of individual audio-visual objects and enabling a range of advanced functionalities not supported by other standards. One of the ke ...

4 Session 1B: System-level exploration and design: System level design with spade: an M-JPEG case study

Paul Lieverse, Todor Stefanov, Pieter van der Wolf, Ed Depretere

November 2001 **Proceedings of the 2001 IEEE/ACM international conference on Computer-aided design**

Publisher: IEEE Press

Full text available:  pdf(190.70 KB)

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Keywords: M-JPEG, application modeling, architecture modeling, design space exploration, system level design

5 Feature sets for interactive images

Andrew Lippman

April 1991 **Communications of the ACM**, Volume 34 Issue 4

Publisher: ACM Press

Full text available:  pdf(7.83 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

6 The berkeley software MPEG-1 video decoder

Ketan Mayer-Patel, Brian C. Smith, Lawrence A. Rowe

February 2005 **ACM Transactions on Multimedia Computing, Communications, and Applications (TOMCCAP)**, Volume 1 Issue 1

Publisher: ACM Press

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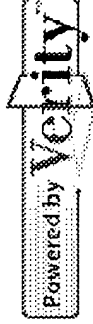
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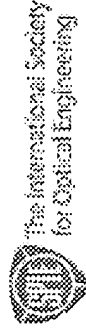
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